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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/987,881	11/16/2001	Takashi Seki	216231US2S	7596
22850	7590 10/03/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			BAYARD, EMMANUEL	
	IA, VA 22314		ART UNIT PAPER NUMBER	
			2638	
			DATE MAILED: 10/03/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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Supp	Application No.	Applicant(s)	
/ '	09/987,881	SEKI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Emmanuel Bayard	2638	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI-	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due of	d course. THIS
1. This communication is responsive to <u>9/22/05</u> .			
2. The allowed claim(s) is/are <u>1-20</u> .			
3. \square The drawings filed on <u>16 November 2001</u> are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson 1) hereto or 2) To Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail Date DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Foreign and provided the paper No./Mail Pater 	been received. been received in Application No cuments have been received in this application. It do not the attached EXAMINER's reason(s) why the oath or declarate the submitted. It is submitted. It is application. Amendment / Comment or in the Own's Patent Drawing Review (PTO-St.) Amendment / Comment or in the Own the drawing the header according to 37 CFR 1.121(control of BIOLOGICAL MATERIAL metallic or in the DIOLOGICAL MATERIAL metallic or in the drawing the submitted of BIOLOGICAL MATERIAL metallic or in the drawing the submitted of BIOLOGICAL MATERIAL metallic or in the drawing the submitted of BIOLOGICAL MATERIAL metallic or in the drawing the submitted or in the submit	national stage application of the front (not the fig.)	uirements DTICE OF
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal Page 1. ☐ Interview Summary Paper No./Mail Date 7. ☐ Examiner's Amendm 8. ☑ Examiner's Stateme 9. ☑ Other See Continual	(PTO-413), e nent/Comment nt of Reasons for Allov	·

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DETAILED ACTION

This is in response to IDS filed on 9/22/05 in which claims 1-20 are pending. The applicant's IDS has been fully considered therefore this case is in condition for allowance.

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance: a differential detection circuit configured to conduct detection using a detection-subject symbol of a plurality of symbols indicated at a predetermined interval in the same frequency range and using a symbol ahead said detection-subject symbol by a predetermined time in at least either one output of said additive information transmission carrier and said reception-synchronization pilot signal output from said demodulation circuit; and a first S/N ratio generation circuit configured to generate an S/N ratio based on a detection output provided from said differential detection circuit, said S/N ratio indicating a reception quality of said OFDM transmit signal as recited in claims 1 and 11.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Usui U.S. Patent No 6,269,128 teaches a clock recovery control in differential detection.

Yamamoto et al U.S. patent No 6,680,901 B1 teaches an OFDM demodulator.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Bayard whose telephone number is 571 272 3016. The examiner can normally be reached on Monday-Friday (7:Am-4:30PM)

Alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vanderpuye Kenneth can be reached on 571 272 3078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Emmanuel Bayard Primary Examiner Art Unit 2638

9/26/05

EMMANUEL BAYARD PRIMARY EXAMINER